

From: Chan, Christina  
Sent: Monday, January 10, 2005 10:48 AM  
To: Murphy, Joseph; STIC-Biotech/ChemLib  
Subject: RE: 10037922

Please ~~rush~~. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644  
(571)-272-0841  
Remsen, 3E89

RECEIVED  
JAN 10 2005  
STIC

-----Original Message-----

From: Murphy, Joseph  
Sent: Monday, January 10, 2005 10:23 AM  
To: Chan, Christina  
Subject: 10037922

Hi Christina,

Please authorize a RUSH search of this case, it is an Amended.

Thanks,

- Joe

STIC/Biotech:

Please search SEQ ID NO: 2 against protein databases.

Please do an oligo search of SEQ ID NO: 2.

Please do an interference search of SEQ ID NO: 2

Please send the results on DISK.

Thanks a lot...

Joseph F. Murphy, Ph.D.  
Patent Examiner, Art Unit 1646  
joseph.murphy@uspto.gov  
Remsen 4D78  
Mailbox: 4C70  
(571) 272-0877

\*\*\*\*\*

STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2-\_\_\_\_\_  
Date Searcher Picked up: \_\_\_\_\_  
Date Completed: 1-12-05  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*

Type of Search

NA Sequence: # \_\_\_\_\_  
AA Sequence: # \_\_\_\_\_  
Structure: # \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

\*\*\*\*\*

Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIS: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_

10037922 Results  
SEQ ID NO: 2

SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	1097	100.0	207	2	AAW57413	Aaw57413 Amino aci
2	1097	100.0	207	2	AAy08590	Aay08590 Human FGF
3	1097	100.0	207	2	AAy39628	Aay39628 Human fib
4	1097	100.0	207	3	AAy56817	Aay56817 Human fib
5	1097	100.0	207	3	AAy87857	Aay87857 Human FGF
6	1097	100.0	207	3	AAy44844	Aay44844 Human hea
7	1097	100.0	207	4	AAE04536	Aae04536 Human fib
8	1097	100.0	207	4	AAU01240	Aau01240 Human fib
9	1097	100.0	207	4	AAG65664	Aag65664 Human fib
10	1097	100.0	207	4	AAB85827	Aab85827 Human fib
11	1097	100.0	207	5	AAE18823	Aae18823 Human FGF
12	1097	100.0	207	6	ABG74159	Abg74159 Human fib
13	1097	100.0	207	6	ABG72718	Abg72718 Recombina
14	1097	100.0	207	7	ADA44887	Ada44887 Human hea
15	1097	100.0	207	7	ADF17708	Adf17708 Human fib
16	1097	100.0	207	7	ABW02394	Abw02394 Human zFG
17	1097	100.0	207	7	ADM30842	Adm30842 Human fib
18	1097	100.0	207	8	ADM94763	Adm94763 Human fib
19	1097	100.0	207	8	ADO49085	Ado49085 Human ded
20	1085	98.9	207	6	ABU63392	Abu63392 Human fib
21	1081	98.5	207	3	AAy56819	Aay56819 Mouse fib
22	1081	98.5	207	3	AAy56818	Aay56818 Rat fibro
23	1081	98.5	207	4	AAE04537	Aae04537 Mouse fib

SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	1097	100.0	207	2	US-08-951-822-2	Sequence 2, Appli
2	1097	100.0	207	3	US-09-173-043-25	Sequence 25, Appl
3	1097	100.0	207	3	US-09-368-951-2	Sequence 2, Appli
4	1097	100.0	207	4	US-09-417-721-14	Sequence 14, Appl
5	1097	100.0	207	4	US-09-229-947-2	Sequence 2, Appli
6	1097	100.0	207	4	US-09-658-644-8	Sequence 8, Appli
7	1081	98.5	207	4	US-09-229-947-39	Sequence 39, Appl
8	932	85.0	193	4	US-09-658-644-6	Sequence 6, Appli
9	596	54.3	215	1	US-08-439-725A-6	Sequence 6, Appli
10	596	54.3	215	2	US-08-867-471-6	Sequence 6, Appli
11	596	54.3	215	2	US-08-438-439C-6	Sequence 6, Appli
12	596	54.3	215	3	US-08-705-245-17	Sequence 17, Appl
13	596	54.3	215	4	US-09-490-714-17	Sequence 17, Appl
14	591	53.9	215	1	US-08-462-169B-16	Sequence 16, Appl
15	591	53.9	215	3	US-09-103-079-16	Sequence 16, Appl
16	591	53.9	215	3	US-08-718-904-17	Sequence 17, Appl
17	591	53.9	215	3	US-09-057-860A-4	Sequence 4, Appli
18	591	53.9	215	4	US-09-425-021-16	Sequence 16, Appl
19	591	53.9	215	4	US-09-449-249-17	Sequence 17, Appl
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21	571	52.1	212	3	US-09-036-985A-2	Sequence 2, Appli
22	567.5	51.7	205	4	US-09-907-794A-23	Sequence 23, Appl

RESULT 1

US-08-951-822-2

; Sequence 2, Application US/08951822A

; Patent No. 5989866

; GENERAL INFORMATION:

; APPLICANT: Deisher, Theresa A.

; APPLICANT: Conklin, Darrell C.  
 ; APPLICANT: Raymond, Fenella  
 ; APPLICANT: Bukowski, Thomas R.  
 ; APPLICANT: Holderman, Susan D.  
 ; APPLICANT: Hansen, Birgit  
 ; APPLICANT: Sheppard, Paul O.  
 ; TITLE OF INVENTION: NOVEL FGF HOMOLOGS  
 ; FILE REFERENCE: 96-20  
 ; CURRENT APPLICATION NUMBER: US/08/951,822A  
 ; CURRENT FILING DATE: 1997-10-16  
 ; NUMBER OF SEQ ID NOS: 36  
 ; SOFTWARE: FastSEQ for Windows Version 3.0  
 ; SEQ ID NO 2  
 ; LENGTH: 207  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-08-951-822-2

Query Match 100.0%; Score 1097; DB 2; Length 207;  
 Best Local Similarity 100.0%; Pred. No. 1.7e-119;  
 Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

#### SUMMARIES

Result	No.	Score	Match	Length	DB	ID	Description
	1	591	53.9	215	2	G02092	fibroblast growth
	2	591	53.9	215	2	A46245	fibroblast growth
	3	566	51.6	216	2	JC5972	fibroblast growth
	4	194	17.7	194	1	A36301	fibroblast growth
	5	193	17.6	194	2	S49501	keratinocyte growt
	6	193	17.6	194	2	I48610	keratinocyte growt
	7	190	17.3	194	2	S26049	fibroblast growth
	8	190	17.3	413	2	H88481	protein let-756 [i
	9	181	16.5	208	2	JC7082	fibroblast somatot
	10	172	15.7	194	2	I50710	fibroblast growth
	11	172	15.7	208	2	S66486	fibroblast growth
	12	172	15.7	208	2	A48137	fibroblast growth
	13	171.5	15.6	155	2	D37360	acidic fibroblast
	14	171.5	15.6	155	2	S04147	acidic fibroblast
	15	170.5	15.5	206	1	TVHUHS	fibroblast growth
	16	169.5	15.5	155	1	A60721	acidic fibroblast
	17	168.5	15.4	152	2	JH0476	acidic fibroblast
	18	167.5	15.3	155	2	JW0055	acidic fiblobrast

#### RESULT 1

G02092  
 fibroblast growth factor 8 precursor - human  
 N;Alternate names: androgen-induced growth factor  
 N;Contains: fibroblast growth factor 8, splice form A  
 C;Species: Homo sapiens (man)  
 C;Date: 21-Dec-1996 #sequence\_revision 06-Jun-1997 #text\_change 31-Mar-2000  
 C;Accession: G02092; S65653; G02394  
 R;Chiu, I.  
 submitted to the EMBL Data Library, September 1995  
 A;Reference number: H00790  
 A;Accession: G02092  
 A;Status: translated from GB/EMBL/DBJ  
 A;Molecule type: mRNA  
 A;Residues: 1-215 <CHI>  
 A;Cross-references: EMBL:U36223; NID:g1143261; PID:g1143262  
 R;Tanaka, A.; Miyamoto, K.; Matsuo, H.; Matsumoto, K.; Yoshida, H.  
 FEBS Lett. 363, 226-230, 1995  
 A;Title: Human androgen-induced growth factor in prostate and breast cancer cells: its  
 molecular cloning and growth properties.  
 A;Reference number: S65653; MUID:95255551; PMID:7737407  
 A;Accession: S65653  
 A;Status: preliminary

A;Molecule type: DNA; mRNA  
A;Residues: 1-215 <TAN>  
A;Cross-references: EMBL:S78465; EMBL:S78466; NID:g999171; PID:g999172; GB:D38752;  
NID:g2463547; PID:d1023395; PID:g2463548  
R;Roy-Burman, P.  
submitted to the EMBL Data Library, January 1996  
A;Reference number: H01168  
A;Accession: G02394  
A;Status: translated from GB/EMBL/DDBJ  
A;Molecule type: mRNA  
A;Residues: 1-23,35-215 <ROY>  
A;Cross-references: EMBL:U46211; NID:g1184864; PID:g1184865  
C;Genetics:  
A;Gene: GDB:FGF8; AIGF  
A;Cross-references: GDB:591889; OMIM:600483  
A;Map position: 10q25-10q26  
C;Keywords: alternative splicing; blocked amino end; pyroglutamic acid  
F;1-22/Domain: signal sequence #status predicted <SIG>  
F;23-215/Product: fibroblast growth factor 8 #status predicted <MAT>  
F;23,35-215/Product: fibroblast growth factor 8, splice form A #status predicted <MATA>  
F;23/Modified site: pyrrolidone carboxylic acid (Gln) (in mature form) #status predicted

Query Match 53.9%; Score 591; DB 2; Length 215;  
Best Local Similarity 57.3%; Pred. No. 1.9e-44;  
Matches 110; Conservative 35; Mismatches 45; Indels 2; Gaps 2;

```

Qy      1 MYSAPSACTCLCLHFLLLCFQVQVLVAEENVDFRIHVENQTRARDDVSRKQLRLYQLYSR 60
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      1 MGSPRSALSCLLLHLLVLCLQAQVTV-QSSPNFTQHVREQSLVTDQLSRRLIRTYQLYSR 59

Qy      61 TSGKHIQVL-GRRISARGEDGDKYAQLLVETDTFGSQVRIKKGKETEFLYLCMNRKGKLVGK 119
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      60 TSGKHVQVLANKRINAMAEADGDPFAKLIVETDTFGSRVVRGAETGLYICMNNKGKLIK 119

Qy      120 PDGTSKECVFIEKVLNNYTALMSAKYSGWYVGFTKGRPRKGPKTRENQQDVHFMKRYP 179
      : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      120 SNGKKGKDCVFTEIVLENNYTALQNAKYEGWYMAFTRKGRPRKGSKTRQHQRQEVHFMKRLP 179

Qy      180 KGQPELQKPFKY 191
      : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      180 RGHHTTEQSLRF 191

```

#### SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	1097	100.0	207	1	FGFI_HUMAN	O76093 homo sapien
2	1081	98.5	207	1	FGFI_MOUSE	O89101 mus musculu
3	1081	98.5	207	1	FGFI_RAT	O88182 rattus norv
4	1042	95.0	207	2	Q9I950	Q9i950 gallus gall
5	817	74.5	156	2	Q6UWF1	Q6uwf1 homo sapien
6	817	74.5	156	2	AAQ89954	Aaq89954 homo sapi
7	713.5	65.0	185	2	Q7T2N7	Q7t2n7 brachydanio
8	690.5	62.9	208	2	Q7SX66	Q7sx66 brachydanio
9	591	53.9	197	2	Q8HZT4	Q8hzt4 oryctolagus
10	583	53.1	210	2	O57341	O57341 brachydanio
11	578	52.7	208	2	Q90XQ4	Q90xq4 ambystoma m
12	578	52.7	212	2	Q9DE51	Q9de51 ambystoma m
13	576	52.5	210	2	O42278	O42278 brachydanio
14	574.5	52.4	204	2	Q76LI5	Q76li5 rattus norv
15	574.5	52.4	204	2	BAB84359	Bab84359 rattus no
16	574	52.3	204	2	Q90696	Q90696 gallus gall
17	574	52.3	214	1	FGF8_CHICK	Q90722 gallus gall
18	571	52.1	216	1	FGFH_HUMAN	O60258 homo sapien
19	571	52.1	216	2	AAH69475	Aah69475 homo sapi

#### RESULT 1

FGFI\_HUMAN

ID FGFI\_HUMAN STANDARD; PRT; 207 AA.

AC O76093;  
 DT 15-JUL-1999 (Rel. 38, Created)  
 DT 15-JUL-1999 (Rel. 38, Last sequence update)  
 DT 05-JUL-2004 (Rel. 44, Last annotation update)  
 DE Fibroblast growth factor-18 precursor (FGF-18) (zFGF5).  
 GN Name=FGF18;  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=98414622; PubMed=9742123;  
 RA Hu M.C.-T., Qiu W.R., Wang Y.-P., Hill D., Ring B.D., Scully S.,  
 RA Bolon B., Deroose M., Luethy R., Simonet W.S., Arakawa T.,  
 RA Danilenko D.M.;  
 RT "FGF-18, a novel member of the fibroblast growth factor family,  
 RT stimulates hepatic and intestinal proliferation.";  
 RL Mol. Cell. Biol. 18:6063-6074(1998).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Lung;  
 RX MEDLINE=98325019; PubMed=9660775;  
 RA Ohbayashi N., Hoshikawa M., Kimura S., Yamasaki M., Fukui S., Ito N.;  
 RT "Structure and expression of the mRNA encoding a novel fibroblast  
 RT growth factor, FGF-18.";  
 RL J. Biol. Chem. 273:18161-18164(1998).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RA Deisher T., Conklin D., Raymond F., Bukowski T., Holderman S.,  
 RA Hansen B., Sheppard P., O'Hara P.;  
 RT "Homo sapiens homologue of fibroblast growth factor.";  
 RL Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.  
 RN [4]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Ovary;  
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
 RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,  
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
 RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,  
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,  
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
 RT "Generation and initial analysis of more than 15,000 full-length human  
 RT and mouse cDNA sequences.";  
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
 CC -!- FUNCTION: Stimulates hepatic and intestinal proliferation.  
 CC -!- SUBCELLULAR LOCATION: Secreted (By similarity).  
 CC -!- SIMILARITY: Belongs to the heparin-binding growth factors family.  
 CC -----  
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
 CC the European Bioinformatics Institute. There are no restrictions on its  
 CC use by non-profit institutions as long as its content is in no way  
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 CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>  
 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC -----  
 DR EMBL; AF075292; AAC62240.1; -.  
 DR EMBL; AB007422; BAA31986.1; -.

Query Match 100.0%; Score 1097; DB 1; Length 207;  
Best Local Similarity 100.0%; Pred. No. 5.7e-94;  
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

[illegible]

Oligo Search:

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1097	100.0	207	2	AAW57413	Aaw57413 Amino aci
2	1097	100.0	207	2	AAy08590	Aay08590 Human FGF
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18	1097	100.0	207	8	ADM94763	Adm94763 Human fib

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	2	1097	100.0	207	3	US-09-173-043-25	Sequence 25, Appl
	3	1097	100.0	207	3	US-09-368-951-2	Sequence 2, Appli
	4	1097	100.0	207	4	US-09-417-721-14	Sequence 14, Appl
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	8	932	85.0	193	4	US-09-658-644-6	Sequence 6, Appli
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	20	591	53.9	215	4	US-09-564-829-10	Sequence 10, Appl
	21	571	52.1	212	3	US-09-036-985A-2	Sequence 2, Appli
	22	567.5	51.7	205	4	US-09-907-794A-23	Sequence 23, Appl

## RESULT 1

US-08-951-822-2

; Sequence 2, Application US/08951822A

; Patent No. 5989866

; GENERAL INFORMATION:

; APPLICANT: Deisher, Theresa A.

; APPLICANT: Conklin, Darrell C.

; APPLICANT: Raymond, Fenella

; APPLICANT: Bukowski, Thomas R.

; APPLICANT: Holderman, Susan D.

; APPLICANT: Hansen, Birgit

; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL FGF HOMOLOGS

; FILE REFERENCE: 96-20

; CURRENT APPLICATION NUMBER: US/08/951,822A

; CURRENT FILING DATE: 1997-10-16

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 2

; LENGTH: 207

; TYPE: PRT

; ORGANISM: Homo sapiens

US-08-951-822-2

Query Match 100.0%; Score 1097; DB 2; Length 207;

Best Local Similarity 100.0%; Pred. No. 1.7e-119;

Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

## SUMMARIES

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	6	193	17.6	194	2	I48610	keratinocyte growt

7	190	17.3	194	2	S26049	fibroblast growth
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10	172	15.7	194	2	I50710	fibroblast growth
11	172	15.7	208	2	S66486	fibroblast growth
12	172	15.7	208	2	A48137	fibroblast growth
13	171.5	15.6	155	2	D37360	acidic fibroblast
14	171.5	15.6	155	2	S04147	acidic fibroblast
15	170.5	15.5	206	1	TVHUHS	fibroblast growth
16	169.5	15.5	155	1	A60721	acidic fibroblast
17	168.5	15.4	152	2	JH0476	acidic fibroblast
18	167.5	15.3	155	2	JW0055	acidic fibroblast
19	167.5	15.3	192	2	S54407	embryonic fibrobla
20	166.5	15.2	155	1	A33665	acidic fibroblast
21	164	14.9	211	2	JC7353	fibroblast growth
22	164	14.9	212	2	JC7511	fibroblast growth
23	163.5	14.9	97	2	B46289	keratinocyte growt

# SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	1097	100.0	207	1	FGFI_HUMAN	O76093 homo sapien
2	1081	98.5	207	1	FGFI_MOUSE	O89101 mus musculu
3	1081	98.5	207	1	FGFI_RAT	O88182 rattus norv
4	1042	95.0	207	2	Q9I950	Q9i950 gallus gall
5	817	74.5	156	2	Q6UWF1	Q6uwf1 homo sapien
6	817	74.5	156	2	AAQ89954	Aaq89954 homo sapi
7	713.5	65.0	185	2	Q7T2N7	Q7t2n7 brachydanio
8	690.5	62.9	208	2	Q7SX66	Q7sx66 brachydanio
9	591	53.9	197	2	Q8HZT4	Q8hzt4 oryctolagus
10	583	53.1	210	2	O57341	O57341 brachydanio
11	578	52.7	208	2	Q90XQ4	Q90xq4 ambystoma m
12	578	52.7	212	2	Q9DE51	Q9de51 ambystoma m
13	576	52.5	210	2	O42278	O42278 brachydanio
14	574.5	52.4	204	2	Q76LI5	Q76li5 rattus norv
15	574.5	52.4	204	2	BAB84359	Bab84359 rattus no
16	574	52.3	204	2	Q90696	Q90696 gallus gall
17	574	52.3	214	1	FGF8_CHICK	Q90722 gallus gall
18	571	52.1	216	1	FGFH_HUMAN	O60258 homo sapien
19	571	52.1	216	2	AAH69475	Aah69475 homo sapi
20	570	52.0	211	2	Q8AXC5	Q8axc5 xenopus lae



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NEWS	10	DEC 17 COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17 CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30 EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30 CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03 No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 11 CA/CAPLUS - Expanded patent coverage to include Russia (Federal Institute of Industrial Property)
NEWS EXPRESS		JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
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SINCE FILE	TOTAL
ENTRY	SESSION
0.42	0.42

FULL ESTIMATED COST

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FILE 'BIOSIS' ENTERED AT 13:28:20 ON 12 JAN 2005

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=> s conklin darrell/au

L2 29 CONKLIN DARRELL/AU

=> s raymond fenella/au

L3 10 RAYMOND FENELLA/AU

=> s bukowski thomas r/au

L4 22 BUKOWSKI THOMAS R/AU

=> holderman susan d/au

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=> s holderman susan d/au

L5 14 HOLDERMAN SUSAN D/AU

=> s hansen birgit/au

L6 21 HANSEN BIRGIT/AU

=> s sheppard paul/au

L7 20 SHEPPARD PAUL/AU

=> s fgf (s) homolog (s) polypeptide

L8 10 FGF (S) HOMOLOG (S) POLYPEPTIDE

=> dup rem l8

PROCESSING COMPLETED FOR L8

L9 10 DUP REM L8 (0 DUPLICATES REMOVED)

=> d l9 total ibib kwic

L9 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:20323 CAPLUS

DOCUMENT NUMBER: 140:88123

TITLE: Methods for the treatment of inflammatory bowel disease and other inflammatory diseases using FGF-CX and FCTR<sub>X</sub> growth factors

INVENTOR(S): Boldog, Ferenc L.; Burgess, Catherine E.; Fernandes, Elma R.; Jeffers, Michael E.; Larochelle, William J.; Lichenstein, Henri S.; Peterson, Jeffrey; Prayaga, Sudhirdas K.; Rittman, Beth; Shimkets, Juliette B.; Shimkets, Richard A.; Yang, Meijia

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 153 pp., Cont.-in-part of U.S. Ser. No. 11,364.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004006015	A1	20040108	US 2002-321962	20021216
US 2003153495	A1	20030814	US 2001-11364	20011116
PRIORITY APPLN. INFO.:			US 2001-11364	A2 20011116
			US 2002-386545P	P 20020606
			US 2000-246206P	P 20001106

AB The present invention is based upon methods of treating inflammatory conditions in the intestinal tract of mammals using growth factor related polypeptides. The invention includes methods of reducing the mortality rate or delaying mortality in a subject suffering from an inflammatory pathol. Methods of using fibroblast growth factor-CX (FGF-CX) polynucleotides sequences and the FGF-CX polypeptides encoded by such nucleic acid sequence, or variants, fragments and homologs thereof, are claimed in the invention. Similarly, methods of using FCTR<sub>X</sub> polynucleotide sequences and the FCTR<sub>X</sub> polypeptides encoded by such nucleic acid sequences, or variants, fragments and homologs thereof, alone or in combination, are also claimed in the invention. FCTR<sub>X</sub> collectively refers to any of six variant FCTR<sub>X</sub> sequences, variously designated FCTR<sub>1</sub>, FCTR<sub>2</sub>, FCTR<sub>3</sub>, FCTR<sub>4</sub>, FCTR<sub>5</sub> and FCTR<sub>6</sub>.

L9 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:574943 CAPLUS

DOCUMENT NUMBER: 137:135503

TITLE: Treatment of inflammatory bowel disease using growth factors

INVENTOR(S): Jeffers, Michael; Shimkets, Richard A.; Prayaga, Sudhirdas; Boldog, Ferenc L.; Yang, Meijia; Burgess, Catherine E.; Fernandes, Elma R.; Rittman, B.; Shimkets, Juliette B.; Larochelle, William J.; Lichenstein, Henry S.

PATENT ASSIGNEE(S): Curagen Corporation, USA

SOURCE: PCT Int. Appl., 196 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058716	A2	20020801	WO 2001-US43846	20011106

WO 2002058716 A3 20030731

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,  
UG, US, UZ, VN, YU, ZA, ZW  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,  
KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,  
IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG

CA 2428084 AA 20020801 CA 2001-2428084 20011106

EP 1365793 A2 20031203 EP 2001-997012 20011106

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004537267 T2 20041216 JP 2002-559050 20011106

PRIORITY APPLN. INFO.: US 2000-246206P P 20001106

WO 2001-US43846 W 20011106

AB The present invention is based upon methods of treating inflammatory conditions in the intestinal tract of mammals using growth factor-related polypeptides. Methods of using fibroblast growth factor-CX (FGF-CX) polynucleotide sequences and the FGF-CX polypeptides encoded by such nucleic acid sequences, or variants, fragments and homologs thereof, are claimed in the invention. Similarly, methods of using FCTR<sub>X</sub> polynucleotide sequences and the FCTR<sub>X</sub> polypeptides encoded by such nucleic acid sequences, or variants, fragments and homologs thereof, alone or in combination, are also claimed in the invention. FCTR<sub>X</sub>, which have sequence homol. to known growth factors, collectively refers to any of six variant FCTR<sub>X</sub> sequences, variously designated FCTR<sub>1</sub>, FCTR<sub>2</sub>, FCTR<sub>3</sub>, FCTR<sub>4</sub>, FCTR<sub>5</sub> and FCTR<sub>6</sub>.

L9 ANSWER 3 OF 10 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.  
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ACCESSION NUMBER: 2000304684 EMBASE

TITLE: The Fn14 immediate-early response gene is induced during liver regeneration and highly expressed in both human and murine hepatocellular carcinomas.

AUTHOR: Feng S.-L.Y.; Guo Y.; Factor V.M.; Thorgeirsson S.S.; Bell D.W.; Testa J.R.; Peifley K.A.; Winkles J.A.

CORPORATE SOURCE: J.A. Winkles, Department of Vascular Biology, Holland Laboratory, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855, United States.  
winkles@usa.redcross.org

SOURCE: American Journal of Pathology, (2000) 156/4 (1253-1261).  
Refs: 44

ISSN: 0002-9440 CODEN: AJPA44

COUNTRY: United States

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 005 General Pathology and Pathological Anatomy  
016 Cancer  
021 Developmental Biology and Teratology  
048 Gastroenterology

LANGUAGE: English

SUMMARY LANGUAGE: English

AB **Polypeptide** growth factors stimulate mammalian cell proliferation by binding to specific cell surface receptors. This interaction triggers numerous biochemical responses including. . . the activation of protein phosphorylation cascades and the enhanced expression of specific genes. We have identified several fibroblast growth factor (FGF)-inducible genes in murine NIH 3T3 cells and recently reported that one of them, the FGF-inducible 14 (Fn14) immediate-early response gene, is predicted to encode a novel, cell surface-localized type Ia transmembrane protein. Here, we report that the human Fn14 **homolog** is located on chromosome 16p13.3 and encodes a 129-amino

acid protein with .simeq.82% sequence identity to the murine protein. The human Fn14 gene, like the murine Fn14 gene, is expressed at elevated levels after FGF, calf serum or phorbol ester treatment of fibroblasts in vitro and is expressed at relatively high levels in heart and. . .

L9 ANSWER 4 OF 10 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN  
 ACCESSION NUMBER: 2000:292092 BIOSIS  
 DOCUMENT NUMBER: PREV200000292092  
 TITLE: FGF homologs.  
 AUTHOR(S): Deisher, Theresa A. [Inventor, Reprint author]; Conklin, Darrell C. [Inventor]; Raymond, Fenell [Inventor]; Bukowski, Thomas R. [Inventor]; Holderman, Susan D. [Inventor]; Hansen, Birgit [Inventor]; Sheppard, Paul O. [Inventor]  
 CORPORATE SOURCE: San Antonio, TX, USA  
 ASSIGNEE: ZymoGenetics, Inc.  
 PATENT INFORMATION: US 5989866 November 23, 1999  
 SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Nov. 23, 1999) Vol. 1228, No. 4. e-file. CODEN: OGUPE7. ISSN: 0098-1133.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 6 Jul 2000  
 Last Updated on STN: 7 Jan 2002

IT (Human Medicine, Medical Sciences); Methods and Techniques; Muscular System (Movement and Support); Pharmaceuticals (Pharmacology)

IT Chemicals & Biochemicals  
 polynucleotide; zFGF-5: **FGF homolog**, cardiovascular agent, muscle cell proliferation agent, **polypeptide**

L9 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1998:251271 CAPLUS  
 DOCUMENT NUMBER: 128:304811  
 TITLE: Cloning and cDNA sequence of human fibroblast growth factor homologous factor zFGF-5  
 INVENTOR(S): Deisher, Theresa A.; Conklin, Darrell C.; Raymond, Fenella C.; Bukowski, Thomas R.; Holderman, Susan D.; Hansen, Brigit; Sheppard, Paul O.  
 PATENT ASSIGNEE(S): Zymogenetics, Inc., USA  
 SOURCE: PCT Int. Appl., 95 pp. CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9816644	A1	19980423	WO 1997-US18635	19971016
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
CA 2269083	AA	19980423	CA 1997-2269083	19971016
AU 9747583	A1	19980511	AU 1997-47583	19971016
AU 725551	B2	20001012		
EP 931148	A1	19990728	EP 1997-910128	19971016

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI

BR 9712348	A	19990831	BR 1997-12348	19971016
CN 1247568	A	20000315	CN 1997-199827	19971016
CN 1127568	B	20031112		
JP 2001502178	T2	20010220	JP 1998-518577	19971016
NO 9901796	A	19990616	NO 1999-1796	19990415
MX 9903530	A	20000131	MX 1999-3530	19990415
KR 2000049207	A	20000725	KR 1999-703306	19990416

PRIORITY APPLN. INFO.:

US 1996-28646P	P	19961016
WO 1997-US18635	W	19971016

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB A novel DNA sequence is provided that encodes a fibroblast growth factor ( **FGF**) **homolog polypeptide** having homol. to **FGF-8**. Anal. of the tissue distribution of the mRNA corresponding to this novel DNA showed that expression was highest in fetal and adult heart tissue, followed by apparent but decreased expression levels in fetal lung, skeletal muscle, smooth muscle tissues such as small intestine, colon, and trachea. The **FGF homolog polypeptide** is designated **zFGF-5**. The polypeptides, and polynucleotides encoding them, are proliferative for muscle cells and may be used for remodelling cardiac tissue and improving cardiac function. The present invention also includes antibodies to the **zFGF-5 polypeptides**.

L9 ANSWER 6 OF 10 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.  
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ACCESSION NUMBER: 1998339230 EMBASE  
TITLE: Fibroblast growth factors as multifunctional signaling factors.  
AUTHOR: Szebenyi G.; Fallon J.F.  
CORPORATE SOURCE: G. Szebenyi, Anatomy Department, University of Wisconsin, Madison, WI 53706, United States  
SOURCE: International Review of Cytology, (1998) 185/- (45-106).  
Refs: 354  
ISSN: 0074-7696 CODEN: IRCYAJ  
COUNTRY: United States  
DOCUMENT TYPE: Journal; General Review  
FILE SEGMENT: 021 Developmental Biology and Teratology  
029 Clinical Biochemistry  
LANGUAGE: English  
SUMMARY LANGUAGE: English

AB The fibroblast growth factor (**FGF**) family consists of at least 15 structurally related **polypeptide** growth factors. Their expression is controlled at the levels of transcription, mRNA stability, and translation. The bioavailability of **FGFs** is further modulated by posttranslational processing and regulated protein trafficking. **FGFs** bind to receptor tyrosine kinases (**FGFRs**), heparan sulfate proteoglycans (**HSPG**), and a cysteine-rich **FGF** receptor (**CFR**). **FGFRs** are required for most biological activities of **FGFs**. **HSPGs** alter **FGF-FGFR** interactions and **CFR** participates in **FGF** intracellular transport. **FGF** signaling pathways are intricate and are intertwined with insulin-like growth factor, transforming growth factor- $\beta$ , bone morphogenetic protein, and vertebrate **homologs** of *Drosophila* wingless activated pathways. **FGFs** are major regulators of embryonic development: They influence the formation of the primary body axis, neural axis, limbs, and other structures. The activities of **FGFs** depend on their coordination of fundamental cellular functions, such as survival, replication, differentiation, adhesion, and motility, through effects on gene.

L9 ANSWER 7 OF 10 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.  
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ACCESSION NUMBER: 95197220 EMBASE  
 DOCUMENT NUMBER: 1995197220  
 TITLE: Vascular endothelial growth factor (VEGF) and VEGF receptor 2 (flk-1) are expressed during vasculogenesis and vascular differentiation in the quail embryo.  
 AUTHOR: Flamme I.; Breier G.; Risau W.  
 CORPORATE SOURCE: Max-Planck-IPKF, W.G. Kerckhoff Institut, Abteilung Molekulare Zellbiologie, D-61231 Bad Nauheim, Germany  
 SOURCE: Developmental Biology, (1995) 169/2 (699-712).  
 ISSN: 0012-1606 CODEN: DEBIAO  
 COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article  
 FILE SEGMENT: 021 Developmental Biology and Teratology  
 029 Clinical Biochemistry  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English  
 AB . . . novo formation of embryonic blood vessels from their angioblastic precursors in situ, is supposed to be under the control of **polypeptide** growth factors and their receptors. The receptor tyrosine kinase flk-1 and its high-affinity ligand vascular endothelial growth factor (VEGF) represent an endothelial specific signal transduction system expressed during embryonic vascular growth in the mouse. We have cloned the quail **homologs** of VEGF and flk-1 using PCR and have investigated their expression pattern in vivo. As shown by Northern analysis and . . . factor (bFGF) and give rise to blood vessels in vitro. Taking advantage of this in vitro model we examined whether **FGF** and VEGF act in concert during vasculogenesis. We found that the flk-1 receptor mRNA is dramatically upregulated within 24 hr upon the addition of **FGF** to quail blastodisc cell cultures. This inducibility in response to EGF is confined to the first 24 hr of culture. . . .

L9 ANSWER 8 OF 10 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.  
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ACCESSION NUMBER: 95250605 EMBASE  
 DOCUMENT NUMBER: 1995250605  
 TITLE: Retinoic acid induces gene expression of fibroblast growth factor-9 during induction of neuronal differentiation of mouse embryonal carcinoma P19 cells.  
 AUTHOR: Seo M.; Noguchi K.  
 CORPORATE SOURCE: Department Biotechnology, Faculty of Engineering, Kyoto Sangyo University, Kamigamo-Motoyama, Kita-ku, Kyoto 603, Japan  
 SOURCE: FEBS Letters, (1995) 370/3 (231-235).  
 ISSN: 0014-5793 CODEN: FEBLAL  
 COUNTRY: Netherlands  
 DOCUMENT TYPE: Journal; Article  
 FILE SEGMENT: 029 Clinical Biochemistry  
 037 Drug Literature Index  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English

AB We have found that the gene expression of the ninth member of the fibroblast growth factor (**FGF**) family, FGF9 was induced during retinoic acid(RA)-induced neuronal differentiation of murine embryonal carcinoma P19 cells. We have reported here the . . . sequence homology to the human FGF9 cDNA and 98.2% homology to that of rats. This mouse FGF9 cDNA encoded a **polypeptide** consisting of 208 amino acids with amino acid sequence identical to that of rats. Only one amino acid was replaced compared to the human **homolog**. The highly conserved sequence homology of FGF9 suggests its functional importance. FGF9 was originally isolated from a culture medium of. . .

L9 ANSWER 9 OF 10 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.  
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ACCESSION NUMBER: 96273172 EMBASE  
 DOCUMENT NUMBER: 1996273172  
 TITLE: Pleiotrophin and midkine in normal development and tumor biology.  
 AUTHOR: Kurtz A.; Schulte A.M.; Wellstein A.  
 CORPORATE SOURCE: Lombardi Cancer Center, Georgetown University, 3970 Reservoir Road N.W., Washington, DC 20007, United States  
 SOURCE: Critical Reviews in Oncogenesis, (1995) 6/2 (151-177).  
 ISSN: 0893-9675 CODEN: CRONEI  
 COUNTRY: United States  
 DOCUMENT TYPE: Journal; General Review  
 FILE SEGMENT: 001 Anatomy, Anthropology, Embryology and Histology  
 016 Cancer  
 021 Developmental Biology and Teratology  
 029 Clinical Biochemistry  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English  
 AB Pleiotrophin (PTN) and midkine (MK) are members of a family of developmentally regulated, secreted heparin-binding proteins. The proteins are structural **homologs**, and are highly conserved among species. Although no homology has been detected with other heparin-binding growth factors, their functional similarity to members of the fibroblast growth factor (**FGF**) family is remarkable. PTN and MK are expressed during embryogenesis, showing an expression pattern that suggests functions in neurogenesis, cell. . . . The widespread downregulation of PTN and MK in the adult human is reverted in a number of cancers, in which **polypeptides** are able to act as both transforming growth factors and promoters of angiogenesis. Flucidating the molecular mechanisms of PTN and. . . .

L9 ANSWER 10 OF 10 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.  
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ACCESSION NUMBER: 93335452 EMBASE  
 DOCUMENT NUMBER: 1993335452  
 TITLE: Murine cortactin is phosphorylated in response to fibroblast growth factor-1 on tyrosine residues late in the G1 phase of the BALB/c 3T3 cell cycle.  
 AUTHOR: Zhan X.; Hu X.; Hampton B.; Burgess W.H.; Friesel R.; Maciag T.  
 CORPORATE SOURCE: Dept. of Molecular Biology, Holland Laboratory, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855, United States  
 SOURCE: Journal of Biological Chemistry, (1993) 268/32 (24427-24431).  
 ISSN: 0021-9258 CODEN: JBCHA3  
 COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article  
 FILE SEGMENT: 029 Clinical Biochemistry  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English  
 AB We have previously reported that BALB/c 3T3 cells require a prolonged exposure to fibroblast growth factor (**FGF**)-1 for the stimulation of maximal DNA synthesis, and this event correlates with the tyrosine phosphorylation of novel proteins late in. . . . Chemical 268, 9611-9620). We have purified, sequenced, and cloned the cDNA encoding p80/p85 and report that it is the murine **homolog** of the chicken cortactin gene and a member of the human hematopoietic specific-1 gene family. Immunochemical analysis of m- cortactin-tyrosine phosphorylation in response to **FGF**-1 demonstrates a biphasic phosphorylation pattern both as a weak immediate-early and strong mid to late G1 response protein. Because the chicken cortactin gene was originally isolated as a substrate for v-Src, **FGF**-1 may influence the enzymatic activity of other cell-associated tyrosine kinases which utilize p80/p85 (cortactin) as a **polypeptide** substrate.